Detailed Description of the Invention

[1] Thus, in a first embodiment, the present invention provides a novel compound of Formula I including isomers, enantioners, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof, comprising:

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wherein:

V is chosen from -CHR5-, -NR5-, -O-, and -S-;

W, X, and Y are independently chosen from -CH= and -N=;

Z is chosen from halogen, alkyl, substituted alkyl, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl, substituted heterocyclyl, -SR³, -O-R³, and -N(R¹)(R²);

-N(R¹)(R²) taken together may form a heterocyclyl or substituted heterocyclyl or

R1 is chosen from hydrogen, alkyl and substituted alkyl; and

R² is chosen from hydrogen, alkyl, substituted alkyl, alkoxy, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl and substituted heterocyclyl;

R³ is chosen from hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl and substituted heterocyclyl;

R⁵ is chosen from hydrogen and alkyl;

 R^6 is

 R^7 is chosen from hydrogen, $-N(R^{31})(R^{32})$, halogen, cyano, alkyl, substituted alkyl, alkoxy, and alkylthio;

R⁸ is chosen from hydrogen and halogen;

 R^9 is chosen from nitro, carboxy, $-C(O)N(R^{31})(R^{32})$, $-SO_2N(R^{31})(R^{32})$,

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QA0239A CIP

-N(R^{33})SO₂ R^{34} , -C(O)N(R^{33})N(R^{31})(R^{32}), -N(R^{33})C(O) R^{34} , -CH₂N(R^{33})C(O) R^{34} , -N(R^{31})(R^{32}), -CH₂OC(O) R^{34} , alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, heterocyclyl, substituted heterocyclyl and -C(O) R^{10} ;

R¹⁰ is chosen from heterocyclyl, substituted heterocyclyl, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, alkyl, substituted alkyl, and -N(R³¹)(R³²); or

R⁸ and R⁹ taken together may form -C(O)N(R³³)CH₂- or -C(O)N(R³³)C(O)-;

R³¹ and R³³ are independently chosen from hydrogen, alkyl, and substituted alkyl;

R³² is chosen from hydrogen, alkyl, substituted alkyl, alkoxy, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, aryloxy, heterocyclyl and substituted heterocyclyl;

R³⁴ is chosen from alkyl, substituted alkyl, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl and substituted heterocyclyl:

when V is $-NR^5$, $-N(R^5)(R^6)$ taken together may form heterocyclyl or substituted heterocyclyl;

 R^{11} is chosen from halogen, OR^{13} , and $-N(R^{12})(R^{13})$;

R¹² is chosen from hydrogen, alkyl, and substituted alkyl;

 R^{13} is $-(CH_2)_m R^{14}$;

-N(R¹²)(R¹³) taken together may form a heterocyclyl or substituted heterocyclyl;

m is 0, 1, 2 or 3;

 R^{14} is chosen from hydrogen, alkyl, substituted alkyl, -C(O)N(R^{31})(R^{32}), -N(R^{33})C(O) R^{34} , aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl, substituted heterocyclyl and

R¹⁵ is chosen from hydrogen, alkyl, substituted alkyl, alkenyl, -C(O)-alkyl, -C(O)-substituted alkyl, -C(O)-aryl, -C(O)-substituted aryl, -C(O)-alkoxy, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl and substituted heterocyclyl;

R¹⁶ is chosen hydrogen, alkyl, substituted alkyl, and

R¹⁷ is chosen from hydrogen, alkyl, substituted alkyl, -C(O)-alkyl, -C(O)-substituted alkyl, -C(O)-aryl, and -C(O)-substituted aryl.

In a preferred embodiment, the present invention provides a the compound of Claim 1 Formula I including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

two or more of W, Y and X are =N-;

10 $V \text{ is } -CHR^5$, $-NR^5$, or -O-;

Z is $-N(R^1)(R^2)$, -S-aryl, or S-substituted aryl;

R1 is hydrogen or alkyl;

R² is alkyl, substituted alkyl, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl or substituted heterocyclyl;

15 R⁵ is hydrogen;

R⁷ is hydrogen, alkyl, substituted alkyl, alkoxy, or halogen;

R8 is hydrogen;

R⁹ is -C(O)R¹⁰, heterocyclyl or substituted heterocyclyl;

R¹⁰ is alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl, aryl, substituted

20 aryl, heterocyclyl, substituted heterocyclyl or

 $-N(R^{31})(R^{32});$

R³¹ is hydrogen, alkyl, or substituted alkyl;

R³² is hydrogen, alkyl, substituted alkyl, alkoxy, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl or substituted heterocyclyl;

25 R^{11} is $-N(R^{12})(R^{13})$;

R¹² is hydrogen, alkyl, or substituted alkyl;

 R^{13} is $-(CH_2)_m R^{14}$;

m is 0, 1, 2 or 3;

 R^{14} is hydrogen, alkyl substituted alkyl, $-C(O)N(R^{31})(R^{32})$, $-N(R^{33})C(O)R^{34}$, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, heterocyclyl, substituted heterocyclyl or

R¹⁵ is hydrogen, alkyl or substituted alkyl;

R¹⁶ is hydrogen or alkyl; or

-N(R¹²)(R¹³) taken together may form a heterocyclyl or substituted heterocyclyl;

R³³ is hydrogen, alkyl, or substituted alkyl; and

R³⁴ is alkyl, substituted alkyl, aryl or substituted aryl.

10 [3] In a more preferred embodiment, the present invention provides a compound of Cloim 2 [2] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

two or more of W, Y and X are =N-;

15 V is –NH-, or –O-;

Z is $-N(R^1)(R^2)$, -S-aryl, or S-substituted aryl;

R¹ is hydrogen or alkyl or 1 to 4 carbons;

R² is alkyl or substituted alkyl wherein alkyl is of 1 to 8 carbons;

R⁷ is hydrogen, alkyl, of 1 to 4 carbons, alkoxy of 1 to 4 carbons, or halogen;

20 R⁸ is hydrogen;

R⁹ is -C(O)R¹⁰, heterocyclyl or substituted heterocyclyl;

R¹⁰ is -NH₂, -NH-alkyl, -NH-alkoxy, -NH-phenyl, or -NH-CH₂-phenyl wherein alkyl and alkoxy are of 1 to 6 carbons;

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic

heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2, or 3 additional nitrogen atoms or wherein

R¹² is hydrogen;

R¹³ is alkyl of 1 to 4 carbons or

 R^{15} and R^{16} are independently selected from hydrogen and methyl.

[4] In another preferred embodiment, the present invention provides a compound of Claim 3 [3] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

W, Y and X are each =N-;

V is -NH-, or -O-;

10 Z is -N(R¹)(R²), -S-aryl, or S-substituted aryl;

R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

R⁷ is hydrogen, methyl, methoxy, Cl, Br, or F;

R⁸ is hydrogen;

15 R⁹ is -C(O)R¹⁰, heterocyclyl or substituted heterocyclyl;

R¹⁰ is -NH₂, -NH-alkyl, -NH-alkoxy, -NH-phenyl, or -NH-CH₂-phenyl wherein alkyl and alkoxy are of 1 to 6 carbons; and

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2, or 3 additional nitrogen atoms.

- [5] In another more preferred embodiment, the present invention provides a compound of Claim-3 [3] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof
- 25 wherein:

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W, Y and X are each =N-;

V is -NH-, or -O-;

Z is $-N(R^1)(R^2)$, -S-aryl, or S-substituted aryl;

R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons:

R⁷ is hydrogen, methyl, methoxy, Cl, Br, or F;

R⁸ is hydrogen;

 R^9 is $-C(O)R^{10}$, heterocyclyl or substituted heterocyclyl;

R¹⁰ is -NH₂, -NH-alkyl, -NH-alkoxy, -NH-phenyl, or -NH-CH₂-phenyl wherein alkyl and alkoxy are of 1 o 6 carbons;

wherein alkyl is of 1 to 4 carbons; and

R¹⁵ and R¹⁶ are independently selected from hydrogen and methyl.

- [6] In another more preferred embodiment, the present invention provides a compound of Claim 4 [4] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof
- 15 wherein:

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$$R^{10}$$
 is -NH₂, -NH-CH₃, -NH-C₂H₅, -NH-OCH₃, or -NH-OC₂H₅.

[7] In another more preferred embodiment, the present invention provides a compound of Claim 5 [5] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

[8] In yet another preferred embodiment, the present invention provides a compound of Claim 3 [3] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

two of W, Y and X are each =N- and the other is -CH=; V is -NH-, or -O-;

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QA0239A CIP

R1 is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

R⁷ is hydrogen, methyl, methoxy, Cl, Br, or F;

R⁸ is hydrogen;

R⁹ is -C(O)R¹⁰, heterocyclyl or substituted heterocyclyl;

 R^{10} is $-NH_2$, -NH-alkyl, -NH-alkoxy, -NH-phenyl, or -NH-CH₂-phenyl wherein alkyl and alkoxy are of 1 to 6 carbons;

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2, or 3 additional nitrogen atoms.

- [9] In yet another more preferred embodiment, the present invention provides a compound of Claim 8 [8] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:
 - R^{10} is $-NH_2$, $-NH-CH_3$, $-NH-C_2H_5$, $-NH-OCH_3$, or $-NH-OC_2H_5$.
- [10] In yet another preferred embodiment, the present invention provides a compound of Claim-3 [3] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

two of W, Y and X are each = N- and the other is -CH=;

V is -NH-, or -O-;

R¹ is hydrogen or methyl;

25 R² is alkyl of 1 to 8 carbons;

R⁷ is hydrogen, methyl, methoxy, Cl, Br, or F;

R⁸ is hydrogen;

 R^9 is $-C(O)R^{10}$, heterocyclyl or substituted heterocyclyl;

 R^{10} is $-NH_2$, -NH-alkyl, -NH-alkoxy, -NH-phenyl, or -NH-CH₂-phenyl wherein

30 alkyl and alkoxy are of 1 to 6 carbons:

$$R^{11}$$
 is $\stackrel{\text{NH}}{\longrightarrow} \stackrel{\text{NR}^{15}}{\longrightarrow} : \text{or} - \text{NH-alkyl}$

wherein alkyl is of 1 to 4 carbons; and

R¹⁵ and R¹⁶ are independently selected from hydrogen and methyl.

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[11] In yet another preferred embodiment, the present invention provides a compound of Claim 10 [10] above including isomers, enantiomers, diastereomers, 'tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

[12] In yet another preferred embodiment, the present invention provides a compound of Claim 4 [4] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

[13] In yet another preferred embodiment, the present invention provides a compound of Claim-8 [8] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

[14] In a second preferred embodiment, the present invention provides a pharmaceutical composition comprising as an active ingredient, a the compound of Formula I, or a product or salt thereof and a pharmaceutically acceptable carrier.

- [15] In a more preferred embodiment, the present invention provides a pharmaceutical composition according, further comprising one or more additional active ingredients.
- In a more preferred embodiment, the present invention provides a pharmaceutical composition wherein said additional active ingredient is an anti-inflammatory compound or an immunosuppressive agent.
- [17] In a preferred embodiment, the present invention provides a pharmaceutical composition wherein said additional active ingredient is chosen from a steroid and an NSAID.
 - [18] In a third preferred embodiment, the present invention provides a method of inhibiting TNF- α expression in a mammal, the method comprising administering to the mammal an effective amount of a composition according to Claim-14 [14] above.
 - [19] In a more preferred embodiment, the present invention provides a method of treating TNF- α mediated disorder, the method comprising administering to a mammal in need of such treatment, an effective amount of a composition according to Claim 14 [14] above.
 - [20] In a more preferred embodiment, the present invention provides a method of treating TNF- α mediated disorder, wherein the TNF- α mediated disorder is an inflammatory disorder.

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[21] In a even more preferred embodiment, the present invention provides a method of treating TNF- α mediated disorder, wherein the TNF- α mediated disorder is chosen from bone resorption, graft vs. host reaction, atherosclerosis, arthritis, ostcoarthritis, rheumatoid arthritis, gout, psoriasis, topical inflammatory disease states, adult respiratory distress syndrome, asthma, chronic pulmonary inflammatory disease, cardiac reperfusion

injury, renal reperfusion injury, thrombus, glomerulonephritis, Chron's disease, ulcerative colitis, inflammatory bowel disease, multiple sclerosis, endotoxin shock, osteoporosis, Alzheimer's disease, congestive heart failure and cachexia.

- 5 [22] In a more preferred embodiment, the present invention provides a method of treating TNF-α mediated disorder wherein the pharmaceutical composition of the invention is administered with one or more additional anti-inflammatory or immunosuppressive agents as a single dose form or as separate dosage forms.
- [23] In an even more preferred embodiment, the present invention provides a method of treating a condition associated with TNF-α expression in a mammal, the method comprising administering to a mammal in need of such treatment, an effective amount of a composition according to Claim 14 [14] above.
- 15 [24] In an even more preferred embodiment, the present invention provides a method of treating a condition associated with TNF-α expression in a mammal wherein the condition associated with TNF-α expression is an inflammatory disorder.
- [25] In a even more preferred embodiment, the present invention provides a

 method of treating a condition associated with TNF-α expression in a mammal wherein the
 condition associated with TNF-α expression is chosen from bone resorption, graft vs. host
 reaction, atherosclerosis, arthritis, osteoarthritis, rheumatoid arthritis, gout, psoriasis, topical
 inflammatory disease states, adult respiratory distress syndrome, asthma, chronic pulmonary
 inflammatory disease, cardiac reperfusion injury, renal reperfusion injury, thrombus,
 glomerulonephritis, Chron's disease, ulcerative colitis, inflammatory bowel disease,
 multiple sclerosis, endotoxin shock, osteoporosis, Alzheimer's disease, congestive heart
 failure and cachexia.
- [26] In a more preferred embodiment, the present invention provides a method of treating a condition associated with TNF- α expression in a mammal wherein the

failure and cachexia

pharmaceutical composition of the invention is administered with one or more additional anti-inflammatory or immunosuppressive agents as a single dose form or as separate dosage forms.

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[27] In yet another more preferred embodiment, the present invention provides a method of treating a condition associated with p38 kinase activity in a mammal, the method comprising administering to a mammal in need of such treatment, an effective amount of a composition according to elaim 14 [14] above.

- [28] In yet another more preferred embodiment, the present invention provides a method of treating a condition associated with p38 kinase activity in a mammal, wherein the condition associated with p38 kinase activity is an inflammatory disorder.
- 15 [29] In yet another more preferred embodiment, the present invention provides a method of treating a condition associated with p38 kinase activity in a mammal, wherein the condition associated with p38 kinase activity is chosen from bone resorption, graft vs. host reaction, atherosclerosis, arthritis, osteoarthritis, rheumatoid arthritis, gout, psoriasis, topical inflammatory disease states, adult respiratory distress syndrome, asthma, chronic pulmonary inflammatory disease, cardiac reperfusion injury, renal reperfusion injury, thrombus, glomerulonephritis, Chron's disease, ulcerative colitis, inflammatory bowel disease, multiple sclerosis, endotoxin shock, osteoporosis, Alzheimer's disease, congestive heart
- 25 [30] In yet another more preferred embodiment, the present invention provides a method of treating a condition p38 kinase activity in a mammal wherein the pharmaceutical composition of the invention is administered with one or more additional anti-inflammatory or immunosuppressive agents as a single dose form or as separate dosage forms.

[31] In a further preferred embodiment, the present invention provides a the compound of Claim 1 Formula I including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

5 two or more of W, X and Y are -N=.

[32] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

V is -NH- or --O-;

R^I is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

$$R^6$$
 is $C(O)$ -NH-OCH₃

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

$$-NH$$
 \rightarrow R^{15} and

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

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[33] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

25 V is -NH- or -O-;

Rⁱ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

$$R^6$$
 is

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

[34] In a further preferred embodiment, the present invention provides a compound of elaim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

V is -NH- or -O-;

R^I is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

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R¹¹ is -N(R¹²)(R¹³) wherein N(R¹²)(R¹³) taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

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R¹⁵ and R¹⁶ are independently hydrogen or methyl.

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QA0239A CIP

[35] In a further more preferred embodiment, the present invention provides a compound of Claim-31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

V is –NH- or --O-;

R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

R¹¹ is -N(R¹²)(R¹³) wherein N(R¹²)(R¹³) taken together form a monocyclic

heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional
nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

15 [36] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

V is -NH- or --O-;

R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

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QA0239A CIP

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

[37] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

[38] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

$$R^6$$
 is $C(0)$ -NH-OCH₃

R¹¹ is -N(R¹²)(R¹³) wherein N(R¹²)(R¹³) taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

10 [39] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

V is -NH- or --O-;

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R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

$$\mathbb{R}^6$$
 is $\mathbb{C}_{(O)\text{-NH}_2}$

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

[40] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof

5 wherein:

V is -NH- or -O-;

R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

R¹¹ is -N(R¹²)(R¹³) wherein N(R¹²)(R¹³) taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

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[41] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

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V is -NH- or -O-;

R¹ is hydrogen or methyl;

R² is alkyl of 1 to 8 carbons;

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

[42] In a further more preferred embodiment, the present invention provides a compound of Claim 31 [31] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

V is -NH- or -O-;

 $Z \text{ is-N(R}^1)(R^2);$

R¹ is hydrogen or methyl;

R² is alkyl of 1-to 8-carbons:

R⁶ is

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R7 is hydrogen, methyl, methoxy, halogen or cyano;

R⁹ is chosen from unsubstituted or substituted triazole, oxadiazole, imidazole, 20 thiazole or benzimidazole;

 R^{11} is $-N(R^{12})(R^{13})$ wherein $N(R^{12})(R^{13})$ taken together form a monocyclic heterocyclyl or substituted heterocyclyl of 5 to 7 atoms containing 1, 2 or 3 additional nitrogen atoms, -NH-alkyl wherein alkyl is of 1 to 4 carbons, or

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QA0239A CIP

R¹⁵ and R¹⁶ are independently hydrogen or methyl.

- [43] In a further more preferred embodiment, the present invention provides a compound of Claim 42 [42] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:
 - R⁹ is substituted or unsubstituted 1,2,4-triazole.
- [44] In a further more preferred embodiment, the present invention provides a compound of Claim 42 [42] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:
 - R⁹ is substituted or unsubstituted 1,2,4-triazole connected via a C3 or C5 position.
- 15 [45] In a further more preferred embodiment, the present invention provides a compound of Claim 42 [42] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:
 - R⁹ is substituted or unsubstituted 1,2,4-triazole connected via an N4, N1 or N2 position.
 - [46] In a further more preferred embodiment, the present invention provides a compound of Claim-42 [42] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:
 - R⁹ is substituted or unsubstituted thiazole connected via a C2 position.
- [47] In a further more preferred embodiment, the present invention provides a compound of Claim 42 [42] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

R⁹ is substituted or unsubstituted thiazole connected via a C4 position.

[48] In a further more preferred embodiment, the present invention provides a compound of Claim 42 [42] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

R9 is substituted or unsubstituted thiazole connected via a C5 position.

[49] In a further more preferred embodiment, the present invention provides a compound of Claim 42 [42] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

 R^9 is substituted or unsubstituted 1,3,4-oxdiazole connected via a 2 or 5 position.

15 [50] In a further more preferred embodiment, the present invention provides a compound of Claim 42 [42] above including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof wherein:

R⁹ is substituted or unsubstituted imidazole connected via a C2, C5, N1 or N3 position.

[51] In a fourth embodiment, the present invention provides a compound including isomers, enantiomers, diastereomers, tautomers, pharmaceutically acceptable salts, prodrugs and solvates selected from:

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